

# Ankit Tiwari

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ankitdev-portfolio.vercel.app

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## SUMMARY

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Software Engineering undergraduate with strong foundations in **data structures, algorithms, and full-stack development**. Hands-on experience building **secure, scalable, and production-ready web applications** using React, Node.js, Express, and REST APIs. Proficient in authentication systems, database modeling, and clean API design. Highly interested in backend engineering, system design, and writing maintainable code for real-world applications.

## EDUCATION

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- **Bhagwan Mahavir College of Computer Application (BMCCA)**  
*Bachelor of Computer Application (BCA), GPA: 8.59 / 10*

Surat, India

Jul 2023 – May 2026

## SKILLS

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- **Programming & DSA:** Java, C++, JavaScript, Python — solid understanding of arrays, strings, recursion, trees, OOP principles, and time complexity analysis
- **Frontend:** React (hooks, reusable components, state management), HTML5, CSS3, Tailwind CSS
- **Backend:** Node.js, Express.js, RESTful API design, JWT-based authentication, middleware, request validation
- **Databases:** MongoDB (schema modeling, indexing, aggregations), MySQL (queries, joins, relational modeling)
- **Tools:** Git, GitHub, Postman, Figma, debugging, clean code practices, API testing

## PROJECTS

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- **SafeSpend – Smart Finance Tracker:** Full-stack personal finance platform for expense tracking, budgeting, and financial analytics

*React, Tailwind CSS, Node.js, Express.js, MongoDB, JWT* [\[GitHub\]](#) — [\[Live Demo\]](#)

- Designed and implemented **JWT-based authentication** with protected routes, supporting **secure session handling for 100+ user records** during testing.
- Developed **10+ RESTful APIs** to manage income, expenses, categories, and transaction history using scalable backend architecture.
- Modeled financial data with **5+ MongoDB schemas** and indexing, improving query efficiency for monthly and category-wise analytics.
- Built interactive dashboards with **dynamic charts and summaries** to visualize spending trends, balances, and monthly reports.
- Implemented **date-range and category-based filtering**, enabling users to analyze expenses across custom time periods.
- Added **Excel export functionality** to generate downloadable reports for offline financial analysis.
- Followed a **modular backend structure** with centralized error handling and reusable middleware, improving code maintainability.

## ACHIEVEMENTS

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- **1st Place:** Design Thinking Competition – Bhagwan Mahavir University (Nov 2024)
- **2nd Place:** Innovate Hackathon – BMCCA (Mar 2024)
- **3rd Place:** Mindstorm Interlevel Competition (Jan 2025)

## CERTIFICATIONS

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- **GeeksforGeeks:** Full Stack Developer Bootcamp (6 Weeks) [Certificate](#)
- **GeeksforGeeks:** GFG 160 – Data Structures & Algorithms [Certificate](#)
- **Google Cloud Skills Boost:** Build Real-World AI Apps with Gemini & Imagen [Certificate](#)
- **HackerRank:** Java & JavaScript Certifications [Profile](#)